

ABSTRACT OF THE DISCLOSURE

5 a semiconductor laser driving apparatus for driving  
a semiconductor laser for directing light to an optical disc  
for recording a recording mark on the optical disc based  
on a recording current and reproducing the recording mark  
recorded on the optical disc so as to generate a reproduction  
signal. The semiconductor laser driving apparatus includes  
a reproduction current generation section for generating  
10 the reproduction current; a high frequency current  
generation section for generating a high frequency current  
including a high frequency component for reducing  
semiconductor laser noise included in the reproduction; a  
recording current generation section for generating the  
15 recording current, the recording current including a pulse  
corresponding to the recording mark and the pulse including  
a plurality of multi-pulses; and a current driving section  
for amplifying the reproduction current and the recording  
current. The high frequency component included in the high  
20 frequency current generated by the high frequency current  
generation section is enhanced at the time of reproduction,  
and the high frequency component included in the recording  
current generated by the recording current generation  
section is enhanced at the time of recording. The  
25 semiconductor laser driving apparatus further includes a  
filter for operating so as to attenuate the enhanced high  
frequency component included in the high frequency current  
generated by the high frequency current generation section  
and the enhanced high frequency component included in the  
30 recording current generated by the recording current  
generation section; and a switching section for switching  
the filter on or off so that the enhanced high frequency

component included in the recording current is superposed on at least one of the plurality of multi-pulses included in the pulse of the recording current.